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NINETEENTH YEAR.

ANNUAL ANNOUNCEMENT

OF THE

DENTAL SCHOOL

(BOSTON)

OF

HARVARD UNIVERSITY

FOR THE YEAR

1886-87.

CAMBRIDGE, MASS.
PUBLISHED BY THE UNIVERSITY.
1886.

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THE DENTAL SCHOOL,

BOSTON.

FACULTY.

CHARLES W. ELIOT, LL.D., *President.*

THOMAS H. CHANDLER, D.M.D., *Dean, and Professor of Mechanical Dentistry.*

DAVID W. CHEEVER, M.D., *Professor of Surgery.*

HENRY P. BOWDITCH, M.D., *Professor of Physiology.*

THOMAS DWIGHT, M.D., *Professor of Anatomy.*

THOMAS FILLEBROWN, M.D., D.M.D., *Professor of Operative Dentistry.*

GEORGE F. GRANT, D.M.D., *Instructor in Treatment of Cleft Palate and Cognate Diseases.*

CHARLES WILSON, D.M.D., *Instructor in Orthodontia.*

CHARLES A. BRACKETT, D.M.D., *Professor of Dental Pathology and Therapeutics.*

WILLIAM B. HILLS, M.D., *Assistant Professor of Chemistry.*

EDWARD C. BRIGGS, M.D., D.M.D., *Instructor in Dental Materia Medica.*

OTHER INSTRUCTORS.

HORATIO C. MERIAM, D.M.D., *Instructor in Operative Dentistry.*

MAURICE H. RICHARDSON, M.D., *Demonstrator in Practical Anatomy.*

ALLSTON G. BOUVÉ, D.M.D., *Instructor in Operative Dentistry.*

FRANK PERRIN, D.M.D., *Instructor in Operative Dentistry.*

GEORGE H. MONKS, M.D., *Instructor in Surgical Pathology.*

DANIEL F. WHITTEN, D.M.D., *Instructor in Operative Dentistry.*

JERE E. STANTON, D.M.D., *Instructor in Oral Pathology and Anatomy.*

EDWARD E. HOPKINS, D.M.D., *Instructor in Operative Dentistry.*

JOSEPH E. WAITT, D.M.D., *Demonstrator of Mechanical Dentistry.*

FREDERICK BRADLEY, D.M.D., *Demonstrator of Operative Dentistry.*

Clinical Instructors in Operative Dentistry, 1885-86.

E. E. FROST, D.M.D.
F. G. EDDY, D.M.D.
E. F. WHITMAN, D.M.D.
J. W. SMITH, D.M.D.
D. M. CLAPP, D.M.D.
G. C. DABOLL, D.D.S.
A. W. BUCKLAND, D.D.S.

STUDENTS.

Third Year.

NAME.	RESIDENCE.	PRESENT ADDRESS.*
Collamore, Fred Freeman,	*Warren, R. I.*	Warren, R. I.
Crank, Peter, L.D.S.,	*London, Eng.*	411 Columbus Ave.
Grünewald, Paul,	*Frankfurt am Main,*	51 Hancock St.
Maxwell, Leslie,	*London, Eng.*	28 Harwich St.
Shattuck, Edwin Leslie,	*Nashua, N. H.*	39 McLean St.
Sprague, Frank Ellsworth,	*Nashua, N. H.*	39 McLean St.
Stark, Henry James,	*Worcester,*	Worcester.
Stoddard, Arthur Henry,	*Boston,*	109 Boylston St.
Veo, Charles Henry,	*Lowell,*	Lowell.
Wilson, John Daniel,	*Canton,*	Canton.
Windsor, Harry Eugene,	*Providence, R. I.*	Providence, R. I.
Wood, Thomas Weston, A.B. (*Brown Univ.*),	*Newport, R. I.*	118 Chandler St.
Young, Carlos Aubrey,	*Boston,*	411 Columbus Ave.

Second Year.

Bates, Edward Nelson,	*Boston,*	8 Commercial St.
Graves, Frederick Payne,	*Saco, Me.*	355 Columbus Ave.
Holmes, Ellis Proctor,	*Whitman,*	Whitman. [Boston.
Kelley, Henry Allen,	*Boston,*	534 Broadway, So.
Stevenson, Frederick Arnold,	*Montreal, Can.*	86 Kirkland St., Cambridge.

First Year.

Clinch, William Chesley,	*Cambridgeport,*	100 Columbia St., Cambridgeport.
Gates, Stephen Mason,	*Longwood,*	St. Paul St., Longwood.
Giblin, Frank Joseph,	*So. Boston,*	794 Fourth St., So. Boston.
Hammond, Frank Irving,	*Providence, R. I.*	271 Tremont St.
Hopkins, Frederick Sylvanus,	*Worcester,*	Newtonville.
Moriarty, Patrick William,	*Boston,*	37 Lynde St.
Pond, Charles Greenleaf,	*Boston,*	23 Oak St.
Twitchell, Frederick Ervin,	*Nashua, N. H.*	Nashua, N. H.

* Addresses are in Boston, unless stated to be elsewhere.

THE DENTAL SCHOOL.

The Dental Department of the University is established in Boston, in order to secure in connection with the Medical Department those advantages for Clinical instruction which are found only in large cities.

Instruction in this School is given throughout the academic year, by lectures, recitations, clinical teaching, and practical exercises, uniformly distributed. The year begins on the Thursday following the last Wednesday in September, and ends on the last Wednesday in June. There is a recess beginning December 23, and ending January 2; and a spring recess, beginning on the Wednesday before Fast Day and ending on the following Tuesday, both inclusive. The course of instruction is progressive, and extends over two years, the teaching of one year not being repeated in the next.

The first year is identical with that of the Harvard Medical School, the student receiving the same instruction by the same professors at the same time and place with the medical students and at the end of the year passing with them the same examinations.

It is the object of the Faculty to present a complete course of instruction in the theory and practice of Dentistry; and for this purpose a well-appointed laboratory and infirmary are provided, and such arrangements made as insure an ample supply of patients. Clinical instruction is given by the professors and other instructors; and, under the direction of demonstrators, patients are assigned to the students, insuring to all opportunity of operating at the chair, and becoming by actual practice familiar with all the operations demanded of the dentist.

The Infirmary, which is a department of the Massachusetts General Hospital, remains open, and one of the Clinical Instructors and the Demonstrator are in attendance, daily, throughout the academic year, offering to students unsurpassed facilities for acquiring practical knowledge and manipulative dexterity.

Students have access to the hospitals of the city; to the dissecting-room and museum of the Medical College; and also, *without additional charge, to the instruction given in any other department of the University, with the exception of exercises carried on in the special laboratories.*

REQUIREMENTS FOR ADMISSION.

All candidates for admission, except those who have passed an examination for admission to Harvard College, or the Lawrence Scientific School, must present a degree in Letters, Science, or Medicine, from a recognized college or scientific school, or pass an examination in the following subjects:

1. English. Every candidate will be required to write, legibly and correctly, an English composition of not less than two hundred words, and also to write English prose from dictation.

2. Physics. A competent knowledge of Physics (such as may be obtained from Balfour Stewart's Elements of Physics).

Students may be admitted to advanced standing upon passing a satisfactory examination in a *majority* of the studies already pursued by the class.

Graduates of recognized Dental Schools will be admitted without examination to the courses of Operative and Mechanical Dentistry.

The examinations are conducted in writing. In judging the work of the candidate, the spelling, grammar and construction are considered.

The examination for admission is held at the Dental School in North Grove St., Boston, on the Monday preceding the last Wednesday in September, beginning at 10 A.M.

No person will be examined for admission at any other than the regularly appointed time.

The entrance and first-year examinations will be allowed to foreign students who have passed *equivalent* examinations abroad, upon presentation of proper certificates from the examining boards vouching for the facts.

The diploma is accepted by the English Board of Registration under the new Dental Act, so that graduates of this School can practice dentistry in Great Britain without further examination.

All persons intending to take the entrance examination must send their names to the Dean for registry at least two weeks previous to the day on which the examination is to take place.

COURSE OF INSTRUCTION.

The following are the methods of study adopted in the various departments: —

Anatomy. — Lectures, demonstrations, various practical exercises, including dissection under the direction of the Demonstrator; recitations.

Physiology. — Lectures, recitations, conferences, and practical demonstrations in the laboratory. Opportunities for work in the physiological laboratory of the new Medical School are offered to students who are qualified to carry on original investigations.

Chemistry is taught mainly by practical work in the laboratory, the student having his own desk and apparatus. Descriptive chemistry and qualitative analysis are taught during the first year. Beside the laboratory work, there is a lecture and recitation every week.

Surgery. — Lectures and recitations in oral surgery illustrated by colored drawings and by recent and morbid specimens. All approved instruments and apparatus are exhibited and explained. Operations are performed on the living subject at the hospitals, and upon the dead body. Instruction is given in the use of anaesthetics.

Instruction in clinical surgery is given at the Massachusetts General Hospital and City Hospital every week.

Surgical Pathology. — Lectures and recitations embracing the subjects of shock, inflammation, repair, suppuration, ulceration, mortification, embolism, pyaemia, erysipelas, and tetanus.

Operative Dentistry. — The instruction in this department is both didactic and practical. The professor and other instructors endeavor to demonstrate all known methods of performing operations upon the teeth and other tissues involved.

The treatment of decay, the materials used for filling teeth, the most improved instruments and appliances used in operating upon the teeth, are appropriately discussed. Irregularities of the teeth receive special attention. Models of cases and the various appliances for treatment are shown and described. Clinics are held at the Infirmary, and every available means used to make the student practically acquainted with all the modern improvements of this important branch of dental science; but no student will be permitted to operate at the chair until he has by observation and practice on extracted teeth satisfied the Professor of his fitness.

Oral Pathology and Anatomy. — Lectures and recitations upon the minute anatomy of the teeth and their histological development, and the surgical pathology of the tissues in and about the mouth. Material is furnished for the examination of the tissues in a healthy and diseased condition, with instruction in its preparation. Instruction is given in the use of the microscope, and the preparation of objects for examination.

Dental Pathology and Therapeutics. — In the beginning of the course of lectures the general principles of pathology, including etiology, nosology, semeiology, diagnosis, and prognosis are outlined. The various pathological conditions in their relations to one another and their modifications of structure and function are considered at length. This prepares the way for the special pathology of the region with which the dentist has most to do. The general principles of medicine and their application are discussed. The diseases of the dental and contiguous tissues are con-

sidered in detail, with reference to their nature, causes, prevention, alleviation, and cure. Instruction is also given upon those articles of the materia medica which are useful in this specialty, and the subject is illustrated by a collection of samples of drugs, including all the medicines ordinarily used in dental therapeutics.

Mechanical Dentistry. — Lectures and practical work in the laboratory; the manner in which mineral teeth are constructed, the principles and method of carving and furnace-work, and all compounds used for artificial teeth; also metallurgy, and the manner in which gold and silver plates are prepared and adapted to the mouth; the use of rubber and other articles as bases. It is the aim to teach not only the mere mechanical processes of dentistry, but that combination of art with mechanism which enables the practitioner to effect so much in restoring the symmetry of the face and usefulness of the teeth, where they have been lost or impaired by accident or disease.

TEXT-BOOKS AND BOOKS OF REFERENCE.

Text-Books.

Gray's or Quain's Anatomy.
Richardson's Mechanical Dentistry.
Bryant's Surgery.
Billroth's Surgical Pathology.
Taft's Operative Dentistry.
Dalton's (6th edition) or Foster's Physiology.
Bartley's Medical Chemistry.

Reference-Books.

Harris's Principles and Practice.
Fresenius' or Douglas and Prescott's Qualitative Analysis.
Tomes's Dental Surgery.
Garretson's Oral Surgery.
Dunglison's Medical Dictionary.
Kingsley's Oral Deformities.
Holden's Osteology.

EXAMINATIONS.

The regular examinations, conducted in writing, are held at the end of each year in June in the following order, viz: —

At the end of the first year in the studies of that year, — anatomy, including dissection, physiology, and general chemistry. A certificate from the Demonstrator of Anatomy will be required of each student that he has satisfactorily performed the required dissections.

At the of the end second year in the studies of that year, — oral pathology, dental materia medica and therapeutics, oral surgery and surgical pathology, operative and mechanical dentistry, except that no student shall take the examinations in operative and mechanical dentistry till the year of his graduation. The examinations in operative and mechanical dentistry will include actual operations performed during the year, and the preparation of specimens of mechanical dentistry.

Examinations for advanced standing, on the studies of the preceding year, are held a week before the opening of the School in September.

No student will be allowed to anticipate the examinations in the regular course of studies of his year, except by special permission of the Faculty. Students intending to present themselves for examination must notify the Dean by letter of such intention, two weeks before the time when the examination is to be held.

Those who fail in any subject may present themselves in that subject again at the next regular examination. The regular examinations for the year 1886–87 will begin June 13 and September 26, 1887.

REQUIREMENTS FOR THE DEGREE.

The degree of Doctor of Dental Medicine (*Dentariae Medicinae Doctor*) may be conferred upon each candidate of adult age, and of good moral character; who must give evidence of having studied medicine or dentistry three full years, at least one continuous year of which must have been spent at this School. He must also have presented a satisfactory thesis, passed *all the required examinations*, and convinced the Professors of Operative and Mechanical Dentistry of his ability to meet satisfactorily the requirements of his art.

He must also deposit with the Dean, to be placed in the Museum of the School, a specimen of mechanical dentistry, or of practical or pathological anatomy, prepared during the course under the eye of the instructor.

No student may advance with his class until he has passed a satisfactory examination in a majority of the studies already pursued by his class.

Admission to advanced standing does not diminish the time (three years) to be spent in professional studies.

The Faculty recommend young men who propose to take the degree to spend the whole of the required term of three years of study in the School. But those who wish to spend but two of the three years in the School are earnestly advised to pass their first year of study, before entering, under the direction of a *competent* private instructor.

INSTRUMENTS.

With the exception of extracting instruments, lathes, and vulcanizers, each student will be required to furnish his own tools, instruments, and appliances for both laboratory and operating room.

LIBRARIES.

The College Library, at Cambridge, is open to students.

The Boston Public Library is open to students who are inhabitants of

Boston. Students who are not inhabitants of Boston, who have filed bonds at the Treasurer's office, or deposited with the treasurer the sum of fifty dollars, may also use this Library.

FEES.

There are no fees for matriculation, for the diploma, or for the demonstrators. For the first year a student is a member of the School, the fee is $200, in two payments of $120 and $80, at the beginning of each term; for the second year, $150, in two payments of $100 and $50, payable at the beginning of each term; for any subsequent year, $50, payable at the beginning of the year.

Graduates of recognized Dental Schools will be admitted to the courses of Operative and Mechanical Dentistry for the whole or any portion of the academic year on payment of fifty dollars for each course.

Of students *who do not pay in advance*, a bond for $300 executed by two sufficient bondsmen, one of whom must be a citizen of the United States, is required. A copy of such bond will be sent, on application to the Dean of the Faculty. The bond of the "American Surety Company," if made in a form which is satisfactory to the Treasurer of the College, will also be accepted. To students depositing these bonds, term-bills will be presented a week before the end of the first term, to be paid within two weeks; and also one week or more before Commencement, to be paid on or before the beginning of the next academic year. Such students will be held responsible for the payment of fees until they shall have notified the Dean of their intention to withdraw from the School, and have received their bond from the Treasurer. *No degree can be conferred till all dues to the School are discharged.*

The student's expenses may be reduced, in accordance with his means, to the standard which prevails in other cities. The Janitor of the Medical School keeps a list of boarding-houses in which the charges are from five dollars per week upwards, according to accommodation furnished.

Students, on joining the School, must enter their names with the Dean of the Faculty.

For further information address Thos. H. Chandler, Dean, Hotel Bristol, corner of Boylston and Clarendon Sts., Boston, Mass.

LIST OF GRADUATES

OF

THE DENTAL SCHOOL OF HARVARD UNIVERSITY.

1869.

Thomas Fillebrown, M.D.	Portland, Me.
Robert Tanner Freeman,	*1873.
Thomas Haley,	Biddeford, Me.
Edward Page, M.D.	Charlestown.
Samuel Julius Shaw,	Boston.
Joseph Jenkins Vincent,	Amherst.

1870.

John Thomas Codman,	Boston.
William Francis Davis,	Westfield.
George Franklin Grant,	Boston.
Samuel Franklin Ham,	Boston.
Daniel Grout Harrington,	Boston.
Thomas Wilson Hogue,	Stourville, Bournemouth, England.
Timothy Otis Loveland,	Boston.
William Henry Noyes,	Newburyport.
George Luther Parmele,	Hartford, Conn.
William Henry Thornton,	Providence, R. I.
Frank Edward Ward,	New Bedford.
Charles Wilson,	Boston.

1871.

Charles Monroe Bailey,	Minneapolis, Minn.
George Hayward Baker,	Woonsocket, R. I.
Charles Edwin Hussey,	Biddeford, Me.
Albert Benton Jewell,	Newton.
Philip Benjamin Laskey,	Marblehead.
William Pitt Morgan,	Saginaw City, Mich.

*Deceased.

1872.

George Henry Ames,	Providence, R. I.
Sidney Chapin Bancroft,	Washington, D. C.
Charles Samuel Bartlett,	Boston.
James Dias Bell,	London, England.
Edwin Perley Bradbury,	Boston.
James Adkins Clark, M.D.	*1875.
James William Curtis,	Brunswick, Me.
George William Geist,	Frankfort am Main, Germany.
John Warner Keyes,	Kearney, Neb.
George Edward Langdon Noyes,	Newburyport.
Frederic Miller Robinson,	Boston.
Samuel Saiza Silva,	Southbridge.
Benjamin Henry Torrens,	Fredericton, N. B.
Winslow Lewis Tucker, A.M	Boston.
Cecil Porter Wilson,	Boston.

1873.

Charles Albert Brackett,	Newport, R. I.
Edward Augustus Dimmick,	Barbadoes, W. I.
George Henry Knowles,	Central Falls, R. I.
William Herbert Rollins, M.D.	Boston.
Charles Herman Wolfe,	Worms am Rhein, Germany.

1874.

Willis Porter Battles,	Boston.
Edward Dwight Carr,	Truxton, N. Y.
Edward Eastman Frost,	Worcester.
George Leonard Mason,	New York, N. Y.
Horatio Cook Meriam,	Salem.
Frederic Augustus Merrill,	Boston.
Eugene Hanes Smith,	Boston.
Franklin Baker Stewart,	*1877.

1875.

Forest Greenwood Eddy,	Providence, R. I.
John Willard Hazleton,	Salem.
Joseph Traverse Morong,	*1880.
Wilbur Bates Parker,	Boston.
Eben Francis Whitman,	Boston.

1876.

Thomas Bradley,	Newport, R.I.
Oscar Berlin Brann,	Portland, Me.
George Peters Caldwell, M.D.	St. John, N. B.
George Cunningham, B.L., B.SC.	Cambridge, England.
Edgar Morton Jewett,	Portsmouth, N. H.
George Otis Lawrence,	San Francisco, Cal.
Jesse Robbins,	Salem.
Charles Claude Rogers,	London, England.
Ezra Fletcher Taft, A.B.	Boston.
Julius George William Werner,	Boston.

1877.

Allston Gray Bouvé,	Boston.
Henry Francis Dunkel,	Gunnison, Col.
Edward Bigelow Hitchcock, M.D.	Newton.
Washburn Eddy Page,	Boston.
Frank Perrin,	Boston.
Lucius Tracy Sheffield,	New York, N. Y.
Richard Theodore Stack, A.B., M.D., CH.M.	Dublin, Ireland.
Frank Herbert Williams,	Boston.

1878.

Edward Cornelius Briggs, M.D.	Boston.
Joseph Mason Bright,	Bangor, Me.
Harry Fairfield Hamilton,	Boston.
Manning Kennard Rand,	Boston.
Daniel Frank Whitten,	Boston.
Herbert Chauncey Woodward,	Paris, France.

1879.

Frederic Eugene Banfield,	Boston.
Walter Bryant Currier,	Boston.
Thomas Clarence Gillingham,	Boston.
Edward Samuel Niles,	Boston.
John William Smith,	Newport, R. I.

1880.

Frederic Eugene Ayer,	Chicago, Ill.
Albert James Colgan,	Boston.
Arthur Ernestine Lewis,	Worcester.
John Scott Mason,	Boston.
Virgil Clarence Pond, B.PH.	Boston.

1881.

William Parker Cooke,	Boston.
George Alfred Dennett,	Boston.
James Alfred Reilly,	Boston.
Edmond Rosenthal,	Liége, Belgium.
Otis Franklin Smith,	Boston.

1882.

Dwight Moses Clapp,	Boston.
George Eubank,	Birmingham, Ala.
Edward Earl Hopkins,	Boston.

1883.

Elliot Bowdoin Bacheller,	Lowell.
Edwin Carter Blaisdell,	South Berwick, Me.
Frederic William Hill,	London, England.
Edward Albert Lowe,	Lowell.
Samuel Sterrett Macfarlane,	Pittsburgh, Pa.
Myron William Smith,	Mount Clemens, Mich.
Joseph Ellsworth Waitt,	Boston.
George Arthur Williams,	Liverpool, England.

1884.

Charles Lincoln Abbott,	Kansas City, Mo.
Frederic William Bevington,	Lawrence.
Henry Parsons Cooke,	Worcester.
Charles Percy Curtis,	Rome, Italy.
Arthur Crowell Gerry,	Lowell.
George Henry Gerry,	Worcester.
Charles Franklin McDonald,	Boston.
Ned Albert Stanley,	New Bedford.
Jere Edmund Stanton, M.D.	Boston.
Alfred Horace Tester, L.D.S.	Brighton, England.

1885.

Charles Henry Abbot,	Berlin, Germany.
Edward Merrill Currier, M.D.	Rome, Italy.
Charles Eugene Estabrook,	Boston.
Thomas James Giblin,	Boston.
Henry Webster Gillett,	Newport, R. I.
Walter Harrison, L.D.S.	Brighton, England.
William Henry Potter, A.B.	Boston.
James Shepherd,	Boston.

1886.

Lyman Fisher Bigelow,	Portland, Me.
Waldo Elias Boardman,	Boston.
William Thomas Borton,	Hertford, England.
Frederick Bradley,	Boston.
Henry Michael Clifford,	Lewiston, Me.
Isidor Fürst,	Hamburg, Germany.
Leonard Nutter Howe,	Boston.
Frederic Milton Mayo,	Boston.
Wilhelm Leopold Olander,	Abt, Finland.
Charles Hutchins Taft, A.B.	Cambridge.
Henry Lauriston Upham,	Boston.